

Hackelia ophiobia R. L. Carr (1974)**RATTLESNAKE STICKSEED**

FAMILY: *Boraginaceae*, the forget-me-not family.

STATUS:

Heritage Program WATCH LIST, ranks: G3 S2

USFWS/ESA: none. **STATE OF NEVADA:** none. **BLM:** none. **USFS:** none. **NNPS:** none.

POPULATION CENSUS (NEVADA): 3 occurrences mapped; total estimated individuals 21,000+, total estimated area unknown. **TREND:** unknown.

IMPACTS AND MAJOR THREATS (NEVADA): No summary available (see references).

INVENTORY EFFORT (NEVADA): Surveys have been conducted but remain very incomplete for Nevada. Most recent entered survey 1995, average year of last survey 1985. **Years since last entered survey** (percent of mapped records at various survey ages): **6-10 yrs:** 33.3%; **21-30 yrs:** 66.7%.

LAND MANAGEMENT (NEVADA) in decreasing predominance: U. S. Bureau of Land Management, U. S. Fish and Wildlife Service.

RANGE: Elko and Humboldt counties, Nevada; also in ID and OR. Thousand Creek gorge, Milligan Creek gorge, and north fork of the Little Humboldt River. Maximum Nevada **range dimension 168.5 km (104.7 mi)**. **Type specimen** collected in Malheur County, Oregon.

ELEVATIONS RECORDED (NEVADA): 4500-5125 feet (1372-1562 meters).

HABITAT (NEVADA): Bases of steep gorge walls cut into volcanic plateau areas, in the rocky areas below the walls, and occasionally along the ledges in the rock walls and in the loamy area close to the water, usually on north-facing slopes in heavily shaded areas, in the shadscale and sagebrush steppe zones with *Rosa woodsii*, *Leymus cinereus*, and many other riparian species, *Artemisia tridentata* var. *tridentata*, *A. packardiae*, *Ivesia baileyi*, etc.

PHENOLOGY: flowering late-spring. Range of most frequent **survey months:** May-August.

LIFE-FORM AND HABIT: perennial herb.

DESCRIPTION: not available (see references).

PHOTOGRAPHS: Nevada Natural Heritage Program slide collection (1986-present).

ILLUSTRATIONS: Cronquist et al. (1984), Mozingo and Williams (1980).

SPECIFIC REFERENCES:

Gentry, J. L., Jr., and R. L. Carr. 1976. A revision of the genus *Hackelia* (Boraginaceae) in North America, north of Mexico. *Memoirs of the New York Botanical Garden* 26: 121-227.

Nachlinger, J. and A. Tiehm. 1996. Rare plant survey of the Sheldon National Wildlife Refuge. Reno, Nevada: The Nature Conservancy, prepared for the U. S. Fish and Wildlife Service, Sheldon-Hart Mountain Refuges, Lakeview, Oregon.
